AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Claims 2, 17, 25, 31 and 49 are canceled without prejudice or disclaimer.

Listing of Claims:

1. (Currently Amended) A method ~~performed on a first server for communicating with a mobile station in order for the mobile station to update a security-related parameter,~~ comprising:

determining, by a first server, that a request expressed in a first protocol has been made by a second server for updating ~~the~~ a security-related parameter on ~~the~~ a mobile station; ~~and~~

in response to determining, packaging the request in a message expressed in a second protocol and communicating the message to the mobile station, wherein the first protocol comprises a signaling protocol and the second protocol comprises an internet protocol, wherein packaging and communicating are performed by the first server.

2. (Canceled)

3. (Currently Amended) The method of claim ~~2~~ 1, wherein the signaling protocol further comprises an over-the-air management protocol, and wherein the internet protocol further comprises an over-the-air internet protocol.

4. (Currently Amended) The method of claim 3, wherein the over-the-air management protocol comprises an IS-683 management protocol, and wherein the over-the-air internet protocol further comprises an ~~I~~internet ~~P~~protocol ~~(IP)~~-based ~~O~~over-~~T~~the-~~A~~air ~~(IOTA) D~~device ~~M~~management protocol.

5. (Currently Amended) The method of claim 1, further comprising ~~determining that the mobile station has updated the security-related parameter, and communicating~~ receiving, by the first

server from the mobile station, a response expressed in the second protocol ~~to the second server~~, the response indicating that the mobile station has updated the security-related parameter.

6. (Currently Amended) The method of claim 1, wherein:

~~the first and second protocols comprise different transport protocols;~~

the request is further expressed in a first management protocol; and

packaging further comprises packaging the request in the message, where the message is expressed in a second management protocol in addition to the second protocol.

7. (Currently Amended) The method of claim 1, wherein:

~~the first and second protocols comprise different transport protocols;~~

the request comprises a trigger to cause the mobile station to begin operations to update the security-related parameter; and

packaging further comprises packaging the request in the message, where the message is expressed in a management protocol in addition to the second protocol.

8. (Original) The method of claim 1, wherein the security-related parameter comprises an authentication key.

9. (Original) The method of claim 1, wherein the security-related parameter comprises a security key.

10. (Currently Amended) The method of claim 1, wherein:

the security-related parameter comprises one of an authentication key or a security key; and

the security-related parameter is defined by a ~~C~~code ~~D~~division ~~M~~multiple ~~A~~access ~~(CDMA)~~ standard.

11. (Original) The method of claim 1, further comprising communicating at least one additional message expressed in the second protocol to the mobile station, the at least one additional

message comprising at least one command defined to cause the mobile station to determine the security-related parameter.

12. (Original) The method of claim 1, further comprising communicating a first message and a second message expressed in the second protocol with the mobile station, the first message comprising a first command defined to cause the mobile station to compute a first value, and the second message comprising a second value and a second command defined to cause the mobile station to compute the security-related parameter by using the first and second values.

13. (Currently Amended) The method of claim 1, wherein[[:]] the message is a first message[[;]] and the method further comprises:

receiving, by the first server, a second message comprising an indication of a version of the security-related parameter, the second message expressed in the second protocol; and

communicating a third message, expressed in the first protocol and comprising the indication, from the first server to the second server.

14. (Currently Amended) The method of claim 1, further comprising receiving, by the first server, an additional message comprising at least one parameter, the at least one parameter indicating whether or not the mobile station supports a certain provisioning protocol.

15. (Original) The method of claim 14, further comprising:

in response to the at least one parameter indicating that the mobile station does support the certain provisioning protocol, performing a first collection of steps; and

in response to the at least one parameter indicating that the mobile station does not support the certain provisioning protocol, performing a second collection of steps.

16. (Currently Amended) The method of claim 15, wherein the message is a first message, and wherein the second collection of steps comprises:

communicating a second message expressed in the second protocol from the first server to the mobile station, the second message comprising a first command defined to cause the mobile station to compute a first value;

receiving, by the first server, a ~~second~~ third message expressed in the second protocol from the mobile station, the second message comprising ~~a first value~~ an indication that the first value has been computed by the mobile station;

computing, by the first server, a second value; ~~and~~

communicating a fourth message expressed in the second protocol from the first server to the mobile station, the fourth message comprising the second value;

receiving, by the first server, a fifth message expressed in the second protocol from the mobile station, the fifth message comprising the first value;

computing, in response to receiving the ~~second~~ fifth message, the security-related parameter based on at least the first ~~and second~~ values; and

communicating a ~~response~~ sixth message expressed in the first protocol from the first server to the second server, wherein the ~~response~~ sixth message comprises the computed security-related parameter.

17. (Canceled)

18. (Currently Amended) The method of claim 15, wherein the message is a first message, and wherein the first collection of steps comprises:

communicating a second message expressed in the second protocol from the first server to the mobile station, the second message comprising a first command defined to cause the mobile station to compute a first value;

receiving, by the first server, ~~from the mobile station~~ a ~~second~~ third message~~,~~ expressed in the second protocol from the mobile station, the third message comprising ~~a first value~~ an indication that the first value has been determined by the mobile station;

communicating~~, in~~ a ~~third~~ fourth message expressed in the first protocol from the first server to the second server, the fourth message comprising the indication~~first value to the second server; and~~

receiving, by the first server, ~~in~~ a ~~fourth~~ fifth message expressed in the first protocol from the second server, the fifth message comprising a second value ~~from the second server~~; and

communicating, in response to receiving the second value, a ~~fifth~~ sixth message expressed in the second protocol from the first server to the mobile station, the ~~fifth~~ sixth message comprising the second value and a second command defined to cause the mobile station to compute the security-related parameter.

19. (Currently Amended) The method of claim 18, wherein the first collection of steps further comprises:

receiving, by the first server, a ~~sixth~~ seventh message expressed in the second protocol from the mobile station, the ~~sixth~~ seventh message comprising ~~an indication that the first value has been determined by the mobile station~~ the first value; and

communicating, in response to receiving the ~~sixth~~ seventh message, ~~communicating the indication to the server in a seventh~~ an eighth message expressed in the first protocol from the first server to the second server, the eighth message comprising the first value.

20. (Currently Amended) The method of claim 1, wherein:

the message is a first message; and

the method further comprises:

communicating ~~to the mobile station~~ a second message expressed in the second protocol from the first server to the mobile station, the second message comprising a first command defined to cause the mobile station to compute a first value;

receiving, by the first server, a third message expressed in the second protocol from the mobile station, the third message comprising the first value;

computing a second value;

computing, in response to the third message, the security-related parameter based on the first and second values; and

communicating a fourth message expressed in the second protocol from the first server to the mobile station, the fourth message comprising the second value and a second

command, the second command defined to cause the mobile station to compute the security-related parameter using the first and second values.

21. (Currently Amended) The method of claim 20, further comprising:

receiving, by the first server, a fifth message expressed in the second protocol from the mobile station, the fifth message comprising an indication that the first value has been computed by the mobile station; and

computing, by the first server, a second value further comprises computing, in response to the fifth message, the second value.

22. (Currently Amended) The method of claim 1, wherein:

the message is a first message; and

the method further comprises:

communicating ~~to the mobile station~~ a second message expressed in the second protocol from the first server to the mobile station, the second message comprising a first command defined to cause the mobile station to compute a first value;

receiving, by the first server, a third message expressed in the second protocol, the third message comprising the first value;

communicating~~, using~~ a fourth message expressed in the first protocol from the first server to the second server, the fourth message comprising the first value ~~to the second server~~;

receiving, by the first server, ~~in~~ a fifth message expressed in the first protocol from the second server, the fifth message comprising a second value ~~from the second server~~;

communicating, in response to receiving the second value, a sixth message expressed in the second protocol from the first server to the mobile station, the sixth message ~~expressed in the second protocol and~~ comprising the second value and a second command, the second command defined to cause the mobile station to compute the security-related parameter using the first and second values.

23. (Currently Amended) The method of claim 18, further comprising:

receiving, ~~using the second transport~~by the first server, a seventh message expressed in the second protocol from the mobile station, the seventh message comprising an indication that the first value has been determined by the mobile station; and

communicating, in response to the seventh message, ~~communicating~~ an eighth message expressed in the first protocol from the first server to the second server, the eighth message comprising the indication ~~to the server in an eighth message expressed in the first protocol~~.

24. (Currently Amended) An apparatus ~~for communicating with a mobile station in order for the mobile station to update a security-related parameter, the apparatus~~ comprising:

at least one memory; and

at least one processor ~~coupled to the at least one memory, the at least one processor~~ configured to ~~perform the steps of:~~determin~~eing~~ that a request expressed in a first protocol has been made by a server for updating ~~the~~ a security-related parameter on ~~the~~ a mobile station; and, in response to determining, to packag~~eing~~ the request in a message expressed in a second protocol and to communicat~~eing~~ the message to the mobile station, wherein the first protocol comprises a signaling protocol and the second protocol comprises an internet protocol.

25. (Canceled)

26. (Currently Amended) The apparatus of claim ~~25~~24, wherein:

~~the first and second protocols comprise different transport protocols;~~

the request is further expressed in a first management protocol; and

~~the means for packaging further packages the request in the message, where~~ the message is expressed in a second management protocol in addition to the second protocol.

27. (Currently Amended) A ~~signal-bearing medium~~ memory tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform operations ~~to communicate with a mobile station in order for the mobile station to update a security-related parameter~~, the operations comprising:

determining that a request expressed in a first protocol has been made by a second server for updating ~~the~~ a security-related parameter on ~~the~~ a mobile station; and

in response to determining, packaging the request in a message expressed in a second protocol and communicating the message to the mobile station, wherein the first protocol comprises a signaling protocol and the second protocol comprises an internet protocol.

28. (Currently Amended) A method ~~performed on a management server for communicating with a mobile station in order for the mobile station to update a security-related parameter,~~ comprising:

receiving, by a management server, ~~from a second server~~ a first message expressed in a signaling protocol, the first message comprising a first request message, the first request message expressed in a first data management protocol and defined to request updating ~~the~~ a security-related parameter on ~~the~~ a mobile station, wherein the first message is received from a second server; and

in response to determining, packaging the first request message in a second request message expressed in a second data management protocol, and communicating the second request message in a second message expressed in an internet protocol to the mobile station, wherein packaging and communicating are performed by the management server.

29. (Currently Amended) A method ~~performed on a mobile station for updating a security-related parameter,~~ comprising:

receiving, by a mobile station, a message expressed in a first protocol from a server and comprising a request for the mobile station to update ~~the~~ a security-related parameter, the request expressed in a second protocol; and

performing, in response to the message, at least one operation by the mobile station in order to update the security-related parameter, wherein the first protocol comprises an internet protocol and the second protocol comprises a management protocol.

30. (Currently Amended) The method of claim 29, further comprising communicating an additional message expressed in the first protocol from the mobile station to the server, the additional message indicating the security-related parameter has been updated.

31. (Canceled)

32. (Currently Amended) The method of claim ~~31~~ 29, wherein the internet protocol comprises an over-the-air internet protocol.

33. (Currently Amended) The method of claim 31, wherein the over-the-air internet protocol further comprises an ~~I~~internet ~~P~~protocol ~~(IP)~~-based ~~O~~over-~~T~~the-~~A~~air ~~(IOTA) D~~device ~~M~~management protocol, and wherein the management protocol comprises an IS-683 over-the-air management protocol.

34. (Original) The method of claim 31, wherein the management protocol is a first management protocol and wherein the message is further expressed in a second management protocol.

35. (Original) The method of claim 34, wherein the first and second management protocols are different over-the-air management protocols.

36. (Currently Amended) The method of claim 29, wherein:

~~the first protocol comprises a transport protocol; and~~

the request defines a trigger to cause the mobile station to begin operations to update the security-related parameter.

37. (Original) The method of claim 29, wherein the security-related parameter comprises an authentication key.

38. (Original) The method of claim 29, wherein the security-related parameter comprises a security key.

39. (Currently Amended) The method of claim 38, wherein the security key is defined by a ~~C~~code-~~D~~division ~~M~~multiple ~~A~~access ~~(CDMA)~~-standard.

40. (Currently Amended) The method of claim 29, wherein the message is a first message, and wherein the method further comprises communicating a second message expressed in the first protocol from the mobile station to the server, the second message comprising at least one parameter, the at least one parameter indicating whether or not the mobile station supports a certain provisioning protocol.

41. (Original) The method of claim 29, wherein:

the method further comprises receiving at least one command message from the server, the at least one command message comprising at least one command defined to cause the mobile station to determine the security-related parameter; and

performing at least one operation further comprises performing, in response to the at least one command message, at least one operation defined by the at least one command in order to determine the security-related parameter.

42. (Original) The method of claim 29, wherein:

the method further comprises receiving a first message expressed in the first protocol from the server, the first message comprising a first command defined to cause the mobile station to compute a first value; and

performing at least one operation further comprises performing at least one first operation defined by the first command in order to compute the first value.

43. (Original) The method of claim 42, further comprising communicating a second message expressed in the first protocol to the server, the second message comprising an indication that the first value has been computed.

44. (Original) The method of claim 42, wherein:

the method further comprises receiving a second message expressed in the second protocol from the server, the second message comprising a second value and a second command defined to cause the mobile station to compute the security-related parameter by using the first and second values; and

performing at least one operation further comprises performing at least one second operation defined by the second command to compute the security-related parameter, the at least one second operation using the first and second values during the computation of the security-related parameter.

45. (Original) The method of claim 44, wherein one or more of performing at least one first operation and performing at least one second operation uses at least one node in a management tree to store information.

46. (Original) The method of claim 45, wherein the node is a temporary node and wherein performing at least one operation further comprises deleting the at least one node in response to performing a predetermined operation of the at least one first operation and the at least one second operation.

47. (Currently Amended) An ~~mobile station that updates a security-related parameter, the mobile station~~ apparatus comprising:

at least one memory; and

at least one processor coupled to the at least one memory, the at least one processor configured to ~~perform the steps of:~~ receive~~ing~~ a message expressed in a first protocol from a server and comprising a request for the mobile station to update ~~the~~ a security-related parameter, the request expressed in a second protocol; and to perform~~ing~~, in response to the message, at least one operation in order to update the security-related parameter, wherein the first protocol comprises an internet protocol and the second protocol comprises a management protocol.

48. (Currently Amended) The ~~mobile station~~ apparatus of claim 47, wherein the at least one memory further comprises a signal bearing medium tangibly embodying a program of machine-readable instructions executable by the at least one processor to perform the receiving and performing operations.

49. (Canceled)

50. (Currently Amended) The apparatus of claim ~~49~~47, wherein ~~the first protocol comprises an internet protocol,~~ the ~~second~~ management protocol comprises a first management protocol, and wherein the message is further expressed in a second management protocol.